CARLETON UNIVERSITY

101st Convocation, Spring 1994

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1994 Spring Convocation

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The Convocation ceremonies may be heard on FM-assisted Listening System, Channel #26. A limited number of receivers are available at each ceremony.

Convocation at Carleton University

The Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.

The Mace

The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function—in the case of universities, to grant degrees.

At Convocation, the mace is carried ahead of the Chancellor as he enters and leaves each ceremony. (Marshal of Convocation H.H.J. Nesbitt has performed this function for all but one of the University's Convocations.) During the ceremony the mace is displayed on a special stand as an embodiment of the authority of the University.

Carleton's mace was presented to the University in 1976 as a gift from the Chairman of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff approximately three feet long. At the upper end there is a bowl marked with the University's coat of arms and the University motto in both Latin and English—"Opera Nobis Aeterna" and "Ours the Task Eternal." From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

Coat of Arms

The coat of arms was presented to the University by His Excellency The Right Honourable Ramon John Hnatyshyn on November 15, 1992 as part of Carleton's 50th anniversary celebrations. It is described in heraldic terms as follows: "Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: on a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules."

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the University when he was 82 years old. "Ours the Task Eternal" is taken from a Walt Whitman poem entitled "Pioneers" and ties in with the eternal quality of the phoenix.

And so, the Carleton University coat of arms symbolizes sound learning, good citizenship, and the highest hopes of humanity.

The Diploma

The diploma the graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the University, it is the Senate which has determined whether the requirements have been met. The signatures of both the Chancellor and the President of the University appear on the diploma: the Chancellor because of his role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The Seal of the University is affixed to the diploma as a mark of authentication.

Academic Dress

The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code. All three hoods—bachelor's, master's, and doctor's —are of the simple or Oxford shape. The bachelor's hood is made of black stuff; the master's and doctor's are made of black silk and all are lined with silver silk with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more and more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations: architecture is cerise; arts is white; commerce is camel brown; computer science is royal blue; engineering is orange; industrial design is dark cardinal; journalism is white with a black cord sewn slightly in from the lower border; management studies is camel brown with a black cord sewn slightly in from the lower border; music is venetian pink; public administration is peacock blue; science is golden yellow; social work is cream; and doctor of philosophy is purple.

The bachelor's gown, to be worn with the above hoods, is of full length, made of black stuff, with a gathered yolk behind, and long open-fronted sleeves. The master's gown is of full style, made of black silk or rayon, with a full gathered yolk behind, and closed sleeves with an opening at the elbows. The doctoral gown is of the same style as the master's, but made of fine royal blue cloth with facings of light blue silk.

The two shades of blue in the doctoral gown are those of the United Nations, and are meant to recognize the University's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the University awarded its first honorary degree, in 1954, to the second Secretary General of the United Nations, the late Dag Hammarskjöld. The tradition of awarding honorary degrees to Secretaries General of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Science, Engineering or Architecture is a full robe with bell-shaped sleeves. It is made of fine royal blue cloth with facings and sleeves in light blue silk. The hood is made of the same material as the gown, has the same lining as that for degrees by examination, and is bordered with dark mauve for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; red for the degree of Doctor of Science; orange for the degree of Doctor of Engineering; and cerise for the degree of Doctor of Architecture.

Alumni Park

Weather permitting, today's Convocation ceremonies are being held outdoors in Alumni Park which was dedicated in 1992, at the initiative of the Carleton University Alumni Association, to commemorate the University's 50th anniversary. The newly constructed arbour under which the Chancellor, the President and Vice-Chancellor, the Chair of the Board of Governors and the faculty are seated is a generous gift from the Association. It provides a permanent stage for Carleton's Convocation ceremonies and other events such as theatrical productions, concerts, and the like. Future plans for the Park include an enhancement of the existing fountain area with the construction of a plaza and landscaping to open views to the Rideau River.

The Presiding Officer of Convocation is the Chancellor of the University, Arthur Kroeger, O.C., M.A., LL.D.

Accompanying him on the podium are Maureen O'Neil, B.A., Chair of the Board of Governors, and Robin H. Farquhar, M.A., Ph.D., F.C.C.E.A., President and Vice-Chancellor.

Assisting the Chancellor are:

Herbert H.J. Nesbitt, M.A., Ph.D., Sc.D., D.Sc., F.L.S., F.E.S.C., F.Z.S.
Professor Emeritus of Biology
and Marshal of Convocation

Michel Gaulin, M.A., Ph.D.
Professor of French, Clerk of Senate,
and Assistant Marshal of Convocation

Janet D. Carson, M.A., M.L.S.
Professional Librarian,
University Library
and Beadle of Convocation

Peter R. Frise, M.Sc., Ph.D., P.Eng.
Assistant Professor of Engineering
and Beadle of Convocation

Kevin Goheen, B.A.Sc., Ph.D., P.Eng.
Associate Professor of Engineering
and Beadle of Convocation

Kenneth Hardy, M.Sc., Ph.D.
Associate Professor of Mathematics
and Beadle of Convocation

David T. Lau, B.Eng., M.S., Ph.D., P. Eng.
Associate Professor of Engineering
and Beadle of Convocation

Ildi Munro, B.A., M.Sc.
Instructor in Earth Sciences
and Beadle of Convocation

Also assisting at Convocation:

Kenneth J. McGillivray, B.A., Ph.D.
Associate Dean (Student and Academic Records)
Faculty of Graduate Studies and Research
and Adjunct Professor of English

Ruth Lifeso, B.Sc.
Assistant Dean and Registrar
Faculty of Science and School of Computer Science

R.L. Fleming, B.A.
Assistant Dean (Academic)
Faculty of Engineering

Carol Corkran
Gwen Moodie
Registrar's Office, Faculty of Graduate Studies and Research

Lisa Ralph
Registrar's Office, Faculty of Science and School of Computer Science

Marilyn Baird
Pegge Clarke
Marlene Groves
Registrar's Office, Division of Engineering

Anne-Marie Lépine
Carolyn Richer, B.A.
Nadine Scott, B.A.
Norman Smithley
Office of Admissions (Records and Registration Services)

Pamela Mallon
Juliet Kayanja
Office of the President

Joan Charron
Nanci Jolicoeur
Tambrae Knapp
MaryAnne Pomainville
Patrick O'Brien, B.A., D.P.A.
Janet Weichel McKenzie, B.A.
Cheryl Wrightsell
Patricia Zorge, B.A./B.P.E.
Public Relations and Information Services

Cathy Pearen
Senate Office

Wilbert Joseph Keon, O.C., O.Ont., B.Sc., M.D., M.Sc., F.R.C.S. (C), F.A.C.S.

Dr. Wilbert J. Keon, surgical innovator, teacher, and researcher, will be awarded the degree of Doctor of Science, *honoris causa*, at the morning ceremony on Saturday, June 18, "in recognition of a distinguished career in the practice of cardiothoracic surgery, the development of the Ottawa Heart Institute, and in research on coronary artery surgery and heart muscle mechanics."

Wilbert Keon was born in the Ottawa Valley in Sheenboro, Quebec in 1935. He received his primary education locally and subsequently moved to Ottawa where he received a B.Sc. degree from St. Patrick's College and an M.D. from the University of Ottawa. He then continued his training at McGill, Toronto, and Harvard where he completed General Surgery, Cardiovascular Surgery, and research degrees in the cardiovascular field.

In 1969 he returned to Ottawa from Boston to develop the University of Ottawa Heart Institute based at the Ottawa Civic Hospital. The Institute has become one of the world-leading academic and health care centres. Completion of the Institute has been his primary goal for the past 20 years.

During the development of the Heart Institute, he has become renowned for his clinical expertise; developed an excellent teaching program for cardiovascular surgery which has placed graduates in centres worldwide; continued his research into circulatory-assist devices, parallel hearts, and cardiac transplantation, and was the first Canadian surgeon to implant a total artificial heart as a bridge to transplant. He was also a pioneer of the now accepted treatment of emergency revascularization in acute heart attacks. His current research continues into circulatory assist with a 15-member research team investigating the development of ventricular-assist devices including both animal and clinical trials. He and his team of physiologists have also perfected a human muscle mechanics model which has now become the basis for testing new drugs.

Dr. Keon has sustained a leadership role in the surgical, academic, and scientific community throughout his career. He has held appointments and elected offices in 36 national and international professional associations and is Past-President of the Canadian Cardiovascular Society and past Vice-President of the Medical Research Council of Canada. He was Professor and Chair of the University of Ottawa's Department of Surgery for 15 years (1976-1991) and guided it to full fledged academic status. He has published extensively, having authored or co-authored 33 books and 140 papers. He has been invited abroad extensively as a lecturer and visiting professor.

Dr. Keon has been honoured by his profession with numerous awards; by Carleton University as the recipient of the 1977 A.D. Dunton Outstanding Alumni Award; by his church as a Knight of St. Gregory the Great; by Pope John Paul II as an Officer of the Order of Malta; by his province with the Order of Ontario; by his country through appointment as an Officer of the Order of Canada and as a member of the Senate of Canada.

Saturday,
June 18, 10:00 a.m.

Order of Proceedings

Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

- Processional Music
  John Robert Coghill Sr., C.D. (bagpipes)
  John Robert Coghill Jr., C.D., B.Mus. (bagpipes)
  Gavin Lemoine, C.D., B.Sc. (snare drums)

- O Canada*
  (the audience is invited to sing)

- Welcome by the President and Vice-Chancellor
  Robin H. Farquhar, M.A., Ph.D., F.C.C.E.A.

- Conferring of Degrees by Examination

  Warrant
  Michel Gaulin, M.A., Ph.D.
  Clerk of Senate

- Introduction of the Medallists
  The Clerk of Senate

- Awarding of the Medals
  Leslie A. Copley, M.Sc., Ph.D.
  Vice-President (Academic)

- Conferring of the Degree of Doctor of Science, *honoris causa*, upon
  Wilbert J. Keon, O.C., O.Ont., B.Sc., M.D., M.Sc., F.R.C.S.(C.), F.A.C.S.
  (presented by Professor John A. Webb, B.Sc., Ph.D., F.R.E.S., Chair, Department of Biology)

- Convocation Address
  Wilbert J. Keon

- Recessional Music

* *see next page for words*

O Canada

O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.

Recipients of Degrees

Doctor of Philosophy

(Presented by Professor J.W. ApSimon, Associate Vice-President (Research) and Dean of Graduate Studies)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

*** Geneviève Béchard**
B.Sc. (Laval), M.Sc. (Quebec)
Biology
Microbiological Process for the Treatment of Acid Mine Drainage Using Cellulosic Substrates
Supervisors: Drs. H. Yamazaki and W.D. Gould

Hong-Yeoul Kim
B.Sc., M.Sc. (Kyung-Hee, Korea)
Biology
Determinants of the *E. coli* Polymerase I-independent and Polymerase I-dependent pathways of replication of an incompatability N group plasmid replicon
Supervisor: Dr. V.N. Iyer

*** Jocelyn Martel**
B.Sc. (Sherbrooke), M.Sc. (Quebec)
Biology
The Effects of Road Stress on the Performance of Gall- Forming Insects and their Host-Plants
Supervisor: Dr. H. Damman

*** Philip David Taylor**
B.E.S., M.Sc. (Waterloo)
Biology
Responses of a Woodland Damselfly to Landscape Change
Supervisor: Dr. H.G. Merriam

*** Xuelian Wang**
B.Sc. (Agricultural University of Central China), M.Sc. (Wuhan, China)
Biology
The Water Balance of Branch Roots of Corn Related to Their Structure
Supervisors: Drs. M.R. McCully and M.J. Canny

*** Marcin Kolbuszewski**
B.Sc., M.Sc. (Wroclaw, Poland)
Chemistry
Stability of the Ground and Excited States of Diatomic Neutral and Multiply Charged Molecules
Supervisor: Dr. J.S. Wright

*** Marc Maurice Lamoureux**
B.Sc. (Ottawa)
Chemistry
Multi-Technique Strategy for Study of Some Mechanisms of Atom Formation and Dissipation in Electrothermal Atomic Absorption Spectroscopy
Supervisors: Drs. C.L. Chakrabarti and D.L. Gregoire

Quentin Gall
B.Sc. (Carleton), M.Sc. (Memorial)
Earth Sciences
Proterozoic Paleoweathering and Diagenesis, Thelon Basin, Northwest Territories, Canada
Supervisor: Dr. J.A. Donaldson

Antonio Simonetti
B.Sc., M.Sc. (McGill)
Earth Sciences
Comparative Nd,Pb, and Sr Isotopic Study of Alkalic Complexes from East Africa and India: Implications for mantle source regions, melt dynamics and fluid processes
Supervisor: Dr. K. Bell

*** Zhaomin Yin**
B.Sc. (Wuhan, China), M.Sc. (Institute of Geology, Beijing)
Earth Sciences
A Study of the Mechanics of Faulting and Earthquakes
Supervisor: Dr. G. Ranalli

*** Mingyu Yu**
B.S. (Jiangxi, China), M.S. (Tianjin, China)
Mathematics
Nested Error Regression Models and Small Area Estimation Combining Cross-Sectional and Time Series Data
Supervisor: Dr. J.N.K. Rao

*** Denis Joseph Dumas**
B.Sc. (Carleton)
Physics
Measurement of the Average B Hadron Lifetime in Z° Decays
Supervisor: Professor P. Estabrooks

*** Dennis P. Heller**
B.Sc. (Waterloo), M.Sc. (Manitoba)
Physics
Radiobiological Aspects of Cellular Recovery Following High and Low Dose-Rate Irradiation with/without Mild Hyperthermia in a Human Glioma Cell Model
Supervisor: Dr. P. Raaphorst

*** Dwight Lorne Deugo**
B.C.S., M.C.S. (Carleton)
Computer Science
Computational Evolutionary Epistemology
Supervisor: Prof. F. Oppacher

Master of Science

(Presented by Professor J.W. ApSimon, Associate Vice-President (Research) and Dean of Graduate Studies)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Malcolm John Robb
B.Sc. (Carleton)
Biology
The isolation and characterization of the Gene ro-4 that is responsible for a morphological mutation in *Neurospora crassa*

Michelle Watt
B.Sc. (Carleton)
Biology
An experimental study of the formation and stabilization of plant rhizosheaths

Marc Lafontaine
B.Sc. (Sherbrooke)
Chemistry
Supercritical Fluid Extraction of Priority Pollutants from Soil Matrices

Tanya Lynn MacPherson
B.Sc. (Saskatchewan)
Chemistry
The Flourine Substituent Effect on the Hydroxylation of Nonane by Pseudomonas oleovorans

Mark S. Elver
B.Sc. (Carleton)
Earth Sciences
The Stratigraphic and Stable Isotopic Characteristics of an Arctic Icing Bylot Island, N.W.T.

Shirley J. McCuaig
B.Sc. (Concordia)
Earth Sciences
Glacial Chronology of the South Bylot and Salmon River Lowlands, N.W.T., Using Erratic Dispersal Patterns, Cosmogenic Dating, Radiocarbon Dating and Lichenometry

Katherine Elizabeth Venance
B.Sc. (Carleton)
Earth Sciences
Low Pressure Metamorphism of the Torp Lake Area, Northern Hood River Belt, Slave Structural Province

Barbara-Ellen Forbes
B.Sc. (Carleton)
Information and Systems Science
Two-Stage Designs for Binary Response Data

*** Chang Gang Zhang**
B.Sc., M.Sc. (Liaoning, China), Ph.D. (Ottawa)
Information and Systems Science
Traffic Handling Capability Study of a Broadband Indoor Wireless System Using CDMA Multiple Access

*** Ian Bercovitz**
B.Sc. (British Columbia)
Mathematics

*** Sandrine Dudoit**
B.Sc. (Carleton)
Mathematics

*** Michael Robert Fox**
B.Sc. (Carleton)
Mathematics
Random Alternative Routing

Mohamed Ali Hemmi
B.Eng. (Carleton)
Mathematics
Series Solutions of Nonlinear Ordinary Differential Equations

*** James Hugh MacMillan**
B.Sc. (Queen's), M.Sc. (McMaster)
Mathematics

*** Jack Clare Singleton**
B.A., M.A. (Western Ontario)
Mathematics

Monique M. Andrews
B.A. (Carleton)
Psychology
Specialization in Neuroscience
An Analysis of the Potential Pharmacotherapeutic Efficacy of Amperozide in an Animal Model of Cocaine Addiction

*** Rachel Dickson**
B.A. (Carleton)
Psychology
Specialization in Neuroscience
Stressor Provoked Alterations in Locomotor Activity, Exploration and Self-Stimulation from the Ventral Tegmental Area Following Intraventricular Administration of U50,488 in the Mouse

Gary John Vickers
B.A. (Carleton)
Psychology
Specialization in Neuroscience
The Effects of Chlordiazepoxide and RO15-4513 on Cocaine Self-Administration

Master of Computer Science

(Presented by Professor J.W. ApSimon, Associate Vice-President (Research) and Dean of Graduate Studies)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

*** Francis Bordeleau**
B.Sc. (Montreal), B.Sc.A. (Quebec)
Visual Descriptions, Formalisms and the Design Process

*** Jiajun Ren**
B.Sc. (Fudan, China)
Geometric Characterization of Fault Patterns in Linear Systolic Arrays

*** Muralitharan Thiyagarajah**
B.Eng. (Concordia)
Permutational Powers of Priority Queues

J. D'Arcy Walsh
B.C.S. (Carleton), B.A. (Queen's)

Yun Wang
B.S. (Beijing Computer Institute, China)
Interaction Diagram Generator
A Tool for Visualizing Use Cases in Smalltalk

Quanhu Xue
B.Sc. (Shanxi Teacher's University, China), M.Sc. (Carleton)
Reconfiguration of Chordal Ring Networks

Bachelor of Science (with Honours)

Presented by Professor D.R. Gardner, Dean of the Faculty of Science, assisted by representatives of Departments)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

BIOCHEMISTRY

Ronald A. Booth
with Honours

Anna-Maria Cunningham
High Honours

Sophie Douville
High Honours

BIOLOGY

Christine Marion Armour
Highest Honours

Julie L. Cressman
with Honours

Sheryl Patricia Godkin
Highest Honours

Suman Khulbe
High Honours

Matt Laale
with Honours

Christopher MacMillan
with Honours

Genevieve Lee Martin
with Honours

Angela Malia Muir
High Honours

Caroline Rutter
B.Sc. (Carleton)
High Honours

Andrew Bertrand Tilton Smith
with Honours

Geoffrey Erik Turner
High Honours

CHEMISTRY

Daniel L. J. Bonneau
with Honours

Meredith Susan Curren
High Honours

Ania Maria Fafara
with Honours

Rhonda Carolyn Hicks
with Honours

Wai Fai Lee
with Honours

Daniel J. J. McKay
with Honours

Maia Moaddel
Highest Honours

Ruin Moaddel
with Honours

Perry Peter Paul Morin
with Honours

Lisa Laurinda Plante
with Honours

Craig Robert Thomas
with Honours

Christopher Andrew White
with Honours

Karen Leslie Williams
with Honours

ENVIRONMENTAL SCIENCE

* Debbie Beck
with Honours

Heather Michelle Bryson
Highest Honours

Susan Elizabeth Carbyn
with Honours

Stephen Bennett Chapman
High Honours

Pamela Gray
with Honours

Rocky Menzella
High Honours

Ian Anthony Nalder
Highest Honours

Diana Lee Ozarko
High Honours

Gillian Maria Porter
High Honours

GEOGRAPHY

Paul A. Stacey
with Honours

GEOLOGY

Tonya Leigh Dooley
with Honours

Jason King Dunning
with Honours

Kellie Ann Emon
B.Env.Studies (Waterloo)
with Honours

David Stuart Greenham
with Honours

Mark David Smith
with Honours

COMPUTER MATHEMATICS

David Michael Craig
with Honours

MATHEMATICS

Caroline Ann Farmer
High Honours

* Jonathan Fitzsimon
with Honours

Mark J. Lafrenière
with Honours

* Angus MacArthur
High Honours

Juliet Eileen O'Manique
with Honours

OPERATIONS RESEARCH

Wai Pan Leung
High Honours

STATISTICS

Lynn Marie Kondo
B.A., (Montréal)
Highest Honours

PHYSICS

Jason Allen Bass
with Honours

Ian Andrew Gerald MacDonald
High Honours

Philip Weetman
with Honours

Beverly Werstiuk
with Honours

PSYCHOLOGY

Christopher Gerald Engeland
High Honours

Tania T. Thompson
with Honours

Matthew MacLaren Young
High Honours

INTEGRATED SCIENCE STUDIES

Isolde Dunphy
High Honours

* Rebecca Lloyd
with Honours

Nicole Ann Manzie
B.Sc. (Carleton)
with Honours

Kathleen Helen Pritchard
B.Sc. (Carleton)
High Honours

Natalia Rybczynski
Highest Honours

BIOCHEMISTRY AND BIOTECHNOLOGY

Edward Ross Broadhurst
with Honours

Errol Camlioglu
High Honours

Avni Radia
High Honours

BIOLOGY AND BIOTECHNOLOGY

Harkakan Bains
with Honours

Jan Melissa Dorrell
High Honours

BIOLOGY AND GEOLOGY

Rachael Dulcie Cardinal
High Honours

BIOLOGY AND GEOGRAPHY

Christine A. Morgan
Highest Honours

BIOLOGY AND PSYCHOLOGY

Golozar Afshari
with Honours

Kirsten Anne Major
with Honours

Monika Nonie Milek
with Honours

GEOGRAPHY AND GEOLOGY

Andrea Caroline Dorval
with Honours

Deborah Anne Kliza
with Honours

MATHEMATICS AND PHYSICS

David Sebastian Burggraf
Highest Honours

PHYSICS AND COMPUTER SCIENCE

* Tak Kwong Wong
B.Sc. (Carleton)
with Honours

Bachelor of Science

(Presented by Professor D.R. Gardner, Dean of the Faculty of Science, assisted by representatives of Departments)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

BIOCHEMISTRY

* David N. Ghadban
Biochemistry

Demetria Tsoutouras
Biochemistry

BIOLOGY

T. David Anstey
Biology

Miriam Eapen
Biology

Ana Maria Farmakis Velderman
B.A. (Queen's)
Biology

* Catherine Jean Hoiles
Biology

Patricia Leigh Hurd
Biology

* Darryl Craig Hussey
Biology

Karen Margaret Mayer
Biology

Christopher John Powers
Biology

* Paul Andrew Swanson
Biology

Terri Vaillancourt
Biology

Nadia Valioghli
Biology

Amanda L. van't Slot
Biology

Beate Ziemann
Biology

CHEMISTRY

Patrick Olumide Cole
Chemistry

Kathy Marie Gaider
B.Sc. (Carleton)
Chemistry

Mari Kono
Chemistry
with distinction

Karen Wing Yun Poon
Chemistry

Hidat Tesfaledet
Chemistry

GEOLOGY

Sergio Alejandro Alvarado
Geology

George Clarence Bragg
Geology

Steven Taylor Hill
Geology

Michael Aaron Nevills
Geology

Mark A. Vermeer
Geology

COMPUTER MATHEMATICS

* Maryam Amirazizi
Computer Mathematics

Chi Kit Gary Cheung
Computer Mathematics

* Sin-Him Kevin Chiu
Computer Mathematics

Trevett Bradin Chusing
Computer Mathematics

N. Huu Dinh
Computer Mathematics

Yu Kay Stephen Fung
Computer Mathematics

Pui Hong Patrick Hung
Computer Mathematics

Chi Ho Danny Ip
Computer Mathematics
with distinction

Si Wa Alex Kwan
Computer Mathematics

* Kwok Man Lau
Computer Mathematics

Brent Yung Lin
Computer Mathematics

David A. H. Long
Computer Mathematics

* Lakhshana Malik
Computer Mathematics

Bao Quyen Nguyen
Computer Mathematics

Adel Zahabi
Computer Mathematics

* Anton L. Zitzelsberger
Computer Mathematics

MATHEMATICS

Jason D. Lees
Mathematics

Angelina McCormick
Mathematics

* Andrew D. Miles
Mathematics

Janice Lynd Smith
Mathematics

* Ian George Tillstone-Rogers
Mathematics

Tom Peter George Whiteside
Mathematics

STATISTICS

Patrick Coxall
Statistics

* Saratha Suriyakumar
Statistics

Lay Yeem Teoh
B.Sc. (Carleton)
Statistics
with distinction

PHYSICS

Sebastien Dovan
Physics

Sandy Owega
B.Sc. (Carleton)
Physics

INTEGRATED SCIENCE STUDIES

Mark Alden Armstrong
Integrated Science Studies

Laura Jo Ann Ewashko
Integrated Science Studies

* Kelly Anne MacLaren
Integrated Science Studies

Ann-Marie Stewart
Integrated Science Studies

Scott Joseph Warren
Integrated Science Studies

Bachelor of Computer Science (with Honours)

(Presented by Professor J.R. Pugh, Director of the School of Computer Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Chulaka Saharsha Ailapperuma
Highest Honours

Sheir Rahman Ali
with Honours

Mark Allan Bartel
with Honours

*** Bob Babak Besharat**
with Honours

Rabie Bikdash
with Honours

*** Jeff E. Brinskelle**
with Honours

Stephen Leslie Brown
B.A. (Waterloo)
High Honours

Rabih Georges Chacra
High Honours

Man Lik Chan
with Honours

Sammy Siu Pui Chan
High Honours

Ka Wai Cheng
with Honours

Andrew Bergeron Cornwall
High Honours

Tod David Creasey
Highest Honours

Robert Earl Davison
with Honours

Jeffery Ian Stuart Golden
with Honours

Joey Imre Wilhelm Grimm
with Honours

Axel Hagel
High Honours

Ting Ting Huang
with Honours

Charles Chak-fai Hui
B.Com. (Carleton)
with Honours

Lily Wai Li Hui
with Honours

Yin On Hui
High Honours

Jonathan Hylands
with Honours

*** Laurie Darlene Ireland Smith**
High Honours

Min Jing
B. of Math (Beijing Normal Univ.)
Highest Honours

*** Graeme Douglas Johnson**
Highest Honours

George Jost
B.Sc. (Carleton)
High Honours

*** Christopher Steven Ross King**
Highest Honours

Ho Yin Frankie Kwok
Highest Honours

*** Li-Shien Lee**
with Honours

Wilson Chi Ho Lee
with Honours

*** Addy Leung**
High Honours

Kwok Cheong Michael Lo
High Honours

*** Andrew Russell Low**
Highest Honours

Ching Lui
High Honours

*** Alexander Ian MacPherson**
with Honours

*** Juliette Matsushita**
B.Comm. (Carleton)
High Honours

James Steven Phillips
with Honours

Ching Man Pong
High Honours

Nashib Qadri
Highest Honours

*** Robert William Roy**
High Honours

David Isaac Roytenberg
Highest Honours

S. K. Peter Shum
with Honours

Ken Stewart
Highest Honours

Nancy Anne Stonelake
B.Comm. (McMaster)
Highest Honours

Robert Eugene Telka
with Honours

Khine Z. Thinn
with Honours

Sai Kit Ting
Highest Honours

Richard Michel Wirthlin
with Honours

Wai Man Raymond Wong
High Honours

Brian Stephen Young
B. Sc. (McMaster)
with Honours

Honorary Degree Recipient

Douglas J. Cardinal, O.C., B.Arch., O.A.A., A.A.A., R.C.A., F.R.A.I.C., LL.D.

Renowned architect Douglas J. Cardinal will be awarded the degree of Doctor of Architecture, *honoris causa*, at the afternoon ceremony on Saturday, June 18, "in recognition of a distinguished contribution to the profession of architecture which has exemplified excellence in design combined with an ongoing concern for enhancing humanness as a feature of the built environment."

Douglas Cardinal graduated from the University of Texas in 1963 with a Bachelor of Architecture (with Honours). He formed his practice, Douglas J. Cardinal Architect, in 1964 and incorporated the business in 1976. Some examples of his work include the design of the National Museum of the American Indian in Washington, D.C. (1993); the Canadian Museum of Civilization in Hull, Quebec (1989); the St. Albert Civic and Cultural Centre, St. Albert, Alberta (1984), St. Mary's Roman Catholic Church, Red Deer, Alberta (1967), and numerous elementary and secondary schools throughout Alberta, Saskatchewan, and the Northwest Territories.

Mr. Cardinal has been the recipient of numerous awards throughout his distinguished career, including: the Great Canadian Award (1992); the 1992 Canada Council Molson Prize for the Arts; and the National Arts Award from the Banff Centre in Banff, Alberta.

In 1974, he was admitted to the Royal Canadian Academy of Arts. Mr. Cardinal was made a Fellow of the Royal Architectural Institute of Canada in 1983. He was nominated as Canada's "Living Treasure" for the 1990 New Zealand Sesquicentennial Year Celebrations.

Mr. Cardinal has received two honorary Doctor of Laws degrees – from the University of Calgary in 1989 and from the University of Windsor in 1992. In 1990, he was awarded the Order of Canada. Mr. Cardinal is a frequent speaker at conferences and symposia and is one of North America's authorities on computer-aided drafting systems in architecture.

Saturday,
June 18, 2:00 p.m.

Order of Proceedings

Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

- ❒ Processional Music
  John Robert Coghill Sr., C.D. (bagpipes)
  John Robert Coghill Jr., C.D., B.Mus. (bagpipes)
  Gavin Lemoine, C.D., B.Sc. (snare drums)

- ❒ O Canada*
  (the audience is invited to sing)

- ❒ Welcome by the President and Vice-Chancellor
  Robin H. Farquhar, M.A., Ph.D., F.C.C.E.A.

- ❒ Conferring of Degrees by Examination

  Warrant
  Michel Gaulin, M.A., Ph.D.
  Clerk of Senate

- ❒ Introduction of the Medallists
  The Clerk of Senate

- ❒ Awarding of the Medals
  Leslie A. Copley, M.Sc., Ph.D.
  Vice-President (Academic)

- ❒ Conferring of the Degree of Doctor of Architecture, *honoris causa*, upon
  Douglas J. Cardinal, O.C., B.Arch., O.A.A., A.A.A., R.C.A., F.R.A.I.C., LL.D.
  (presented by Associate Professor J. Benjamin Gianni, B.A., M.Arch., Director of the School of Architecture)

- ❒ Convocation Address
  Douglas J. Cardinal

- ❒ Recessional Music

* *see next page for words*

O Canada

O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.

Doctor of Philosophy

(Presented by Professor J.W. ApSimon, Associate Vice-President (Research) and Dean of Graduate Studies)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

*** Majeed Abdulrahman**
B.A.Sc. (Ottawa), M.Eng. (Carleton)
Electrical Engineering
DFE for Interference and Multipath Suppression in a CDMA System
Supervisors: Profs. A. Sheikh and D. Falconer

Norman Wai Keung Lo
B.A.Sc. (British Columbia), M.Eng. (Carleton)
Electrical Engineering
Adaptive Equalization for a Multipath Fading Channel in the Presence of Interference
Supervisors: Profs. D. Falconer and A. Sheikh

*** Bertrand Pelletier**
B.Sc. (Quebec, Rimouski), M.Sc. (Montreal)
Electrical Engineering
Unsupervised Learning From a Goal-Driven Agent
Supervisors: Profs. B. Pagurek and S. Matwin

Yong Hua Thia
B.Sc. (Essex, U.K.), M.Sc. (Imperial College of Science, U.K.)
Electrical Engineering
Evaluation of Bypass Architecture for High-Speed Bulk Data Transfer Through Deeply Layered Protocol Stacks
Supervisor: Prof. C.M. Woodside

Gabriel David Warshaw
B.Sc. (Massachusetts Institute of Technology), M.Eng. (Carleton)
Electrical Engineering
Sampled-Data Robot Adaptive Control
Supervisor: Prof. H.M. Schwartz

Shubin Liu
B.Eng. (Wuhan, China), M.Eng. (Northeastern University, China)
Mechanical Engineering
Boundary Element Analysis in Contact Fracture Mechanics
Supervisor: Prof. C.T. Tan

Master of Engineering

(Presented by Professor J.W. ApSimon, Associate Vice-President (Research) and Dean of Graduate Studies)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Michael William Paul Abbott
B.Eng. (Memorial)
Aerospace Engineering
The Aerodynamic Effects of Roughness on the Performance of a Turbine Cascade

Thomas Garry Fejes
B.Eng. (Carleton)
Aerospace Engineering
An Ultra-Precision Digitizer for Inertial Systems

Michael Scott Jeffries
B.Eng. (Carleton)
Aerospace Engineering
The Commissioning and Enhancement of a Blow Down Wind Tunnel Facility

James Henry Sykes
B.A.Sc. (Toronto), B.Sc. (Dalhousie)
Aerospace Engineering
A Higher Order Panel Method for Linearized Unsteady Subsonic Aerodynamics

Jeffrey Richard Verhiel
B.A.Sc. (Toronto)
Aerospace Engineering
Prediction of the Effects of Spanwise Mixing for Turbines with Damaged Blades

Christopher Edward Lyon
B.Eng. (Carleton)
Civil Engineering

*** Efren Marquez**
B.Sc. (Feati, Philippines)
Civil Engineering

Mohammad-Reza Tayyaran
B.Sc. (Isfahan, Iran)
Civil Engineering
Increasing Job Opportunities in a Sub-Region as a Potential for Reducing Air Pollution and Fuel Consumption

*** Robert Veizer**
B.A.Sc. (Waterloo)
Civil Engineering
Design of a Crumb Rubber Modified Asphalt Pavement Using the Stone Mastic Asphalt Concept

Frederick Milton Williams
B.Eng. (Carleton)
Civil Engineering
A Design Standards Document Server

*** Syed Aun Abbas**
B.Sc. (Islamic Pakistan)
Electrical Engineering
Microcellular Mobile Radio Channel Simulation – A Geometrical Optics Approach

*** Marinette Annie Besson**
B.Eng. (Pierre et Marie Curie, Paris)
Electrical Engineering
Hot Carrier Induced Degradation in Surface pMOSFETs

Daniel William Burke
B.Eng. (Carleton)
Electrical Engineering
The Effects of Non-Ideal Filtering and Nonlinear Amplification on the BER Performance of a COFDM-Based Digital Audio Broadcasting System

*** Abdulhamid Mohamed Darrat**
B.A.Sc. (Ottawa)
Electrical Engineering

Daniel Joseph Drolet
B.Eng. (Carleton)
Electrical Engineering
A Hybrid High-Tc Superconductor Filter/Low-Noise Amplifier Microwave Integrated Circuit

Terrence Patrick Lawrence Kenny
B.Eng. (Carleton)
Electrical Engineering
Components and Architectures for an Integrated Wideband FM Transceiver

Parsya Roohi Larijani
B.Sc. (Tehran, Iran)
Electrical Engineering
Radial Basis Function Equalizer for Mobile Channels

*** Tze-Wo Leung**
B.Sc. (Southampton)
Electrical Engineering
Voice Frame Reconstruction Methods for CELP Speech Coders

Peilan Li
B.Eng. (Shanghai, China)
Electrical Engineering
Simulation and Analysis of Sputter Deposition and Sputter Etching of Metal Thin Films for VLSI Metallization

*** Jingping Lin**
B.Eng. (North China Institute of Electrical Power)
Electrical Engineering
Performance Analysis of Client-Server Systems with Multi-Threaded Clients

Kimberley Anne MacDonald
B.Eng. (Carleton)
Electrical Engineering
High Efficiency Power Amplifier for Personal Communicator

Brendon Michael Manning
B.Eng. (Carleton)
Electrical Engineering
Bandgap Narrowing in Heavily Doped Base Regions of $Si/Si_{1-x}Ge_x/Si$ Heterojunction Bipolar Transistors

*** Kevin Roy McKay**
B.Sc. (New Brunswick)
Electrical Engineering
A Stacked Microstrip Antenna for Mobile Satellite Communication

Guang Shi
B.Eng. (Tsinghua, China)
Electrical Engineering
Inductive Learning in Network Fault Diagnosis

Manop Thamsirianunt
B.Eng. (King Mongkut's Institute of Technology, Thailand)
Electrical Engineering
The Design and Implementation of CMOS Components for a Gigahertz Frequency Synthesizer

*** Wai Leung Tung**
B.Eng. (Memorial)
Electrical Engineering
A Technique for On-Chip Analog VLSI Circuit Testing

*** Hongxia Xia**
B.Eng. (Tsinghua, China)
Electrical Engineering
Transistor Placement Algorithm for Automatic Layout Synthesis of CMOS/BiCMOS Logic and Interface Circuits

Haiyan Yuan
B.Sc. (University of Electronics Science and Technology, China)
Electrical Engineering
Dynamic Behaviour of Acoustic Echo Cancellation

*** Lyle Frank Zary**
B.Eng. (Saskatchewan)
Electrical Engineering
Case Based Reasoning For Communication Network Fault Diagnosis

Graeme Ferguson Eastaugh
B.Sc. (Nottingham, England)
Mechanical Engineering
Multiple Site Fatigue Damage in Fuselage Skin Splices

*** David Norman Green**
B.A.Sc. (Waterloo)
Mechanical Engineering
Guidance and Control of an Autonomous Planetary Rover

*** Mark Andrew Hendrycks**
B.Eng. (Carleton)
Mechanical Engineering
Acoustic Spectrum Shaping by Impinging Gas Jets for Satellite Testing: A Parametric Experiment

David Paul Isaacs
B.Eng. (Carleton)
Mechanical Engineering
The Aerodynamics of Turbine Blades with Trailing Edge Damage

Henry E. Vietinghoff
B.Sc. (Queen's)
Mechanical Engineering
Compression-After-Impact Strength of Carbon Fibre Reinforced Plastic Laminates

*** Kevin Vaughan Williams**
B.Eng. (Carleton)
Mechanical Engineering
Numerical Predictions of Strain Distributions in Sheet Metal Forming Operations

Bachelor of Engineering

(Presented by Professor M.J. Bibby, Dean of the Faculty of Engineering, assisted by representatives of Departments)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

AEROSPACE

David Abbott

Nazih Almalki
with high distinction

Peter Mark Anderson

Tara LeeAnne Arthur
with high distinction

Philip Belohlavek

Jasmin Bertovic

Douglas Findlay Beveridge
with distinction

Jason Russell Bright
with distinction

Brett Michael Brooking

Matthew Robert Bullock
with high distinction

Nicola Colucci
with distinction

Michael Cooper
with high distinction

Gerard R. Cormier

Trevor Crowe

Enzo Diodati

Sasan Eslami

Arthur William Gubbels
with distinction

* Peter Josef Heilmann

Shing Chi Ho

Shaun Wallace Horning
with high distinction

Slawek Paul Jarosz

Stephen Victor Karam

Dawood A. Khan

Cynthia Mae Krenosky

Paul O. Laasanen
with distinction

Marc David Lennox
with distinction

Jayson Luiz

Alan Michael Magar

Sanjeev Malhotra
with distinction

Robert P. Mobilio

Mehndi Hassan Naqvi

Tracey Pearson
B.Com.(Alberta)

Steven Lloyd Quast

Anthony James Robillard

Paul Leonard Rocco

Benjamin Schonfeld
with high distinction

Vlado Semiga
with distinction

David Allen Shirley

Peter Sladic

Siamak Tafazoli
with distinction

Sawsan Tawfik

James Clark Thompson

Vincent Tirabasso

Karel Mark Tomecek

* Alisa Anne Turk

David Ross Waigh
with distinction

CIVIL

Marc Jean Arsenault
Concentration in Management
with distinction

Sean Stead Baptiste

Wing Chung Chiu
with distinction

Denise Rose Deforge

Brian Stanley Duffield
B.Sc.(Dalhousie)

Kenneth Gerald Gauthier
Concentration in Management

Gina Marlene Gill

Christopher A. Gordon

John Ikonomopoulos

Katherine Anne Keegan
with distinction

Christopher Robert Kieswetter
Concentration in Management

* Derek John Kuhn

Wendy Nicole Laycock

Ellis D. Lindsay

Andrew F. Mihelic
Concentration in Management

Michel L. Moorhouse

* Kevin Nelson

Elie Saab

* Omar S. Sheikh

Bonnie Jean Stewart
with high distinction

John David Stewart

Brian J. Stickle
with distinction

Matthew Charles Strampel
Concentration in Management

Dominic Chun Ming Tang

Christopher Charles Wright

COMPUTER SYSTEMS

Jamal Aboukarr

Latif Ahmed
with distinction

Omar Alsaied
with distinction

Scott Newman Ashdown
with high distinction

Anthony Boffa

Caleb James Dods
with high distinction

Ahmed El Gillani
with distinction

Chadi El Jechi

Eric Feeley
with high distinction

Stephen Frederick Giguere

* Brian Gerald Grossman

Thomas Reardon Jones

M. Ken Lew
B.Eng. (Carleton)
with high distinction

Jason Lin

Kam-Shing Liu

Roy Fredrick Loeffler

James Andrew Meyer

Priya Narasimhan
with high distinction

Anthony A. A. Pighin
with distinction

Albert Frederich Reiche

Hussein Said

Jason Benjamin Spotswood
with high distinction

Somsay Sychaleun
with high distinction

Patrick Theodore Vandenberg

Craig Douglas Wigglesworth
with distinction

Mag K. Wong
with distinction

Jeremy Paul Zaluski
with distinction

ELECTRICAL

Christopher N. Ally
with distinction

Umang Bali
with distinction

John Edward Blaszynski

Keith G. Castelino

Theresa J. Chung
with high distinction

Christopher V. D'Costa

Darren Dentremont
with distinction

Sebastien Do

Thomas I. Fejes
with high distinction

Louis Frlan
with distinction

Ravi Gopal

David Wayne Horton
with high distinction

Neal Micajah Howes
with distinction

Shin-Wart Hung

Gaby Khouri

David Joseph Kind

Philip Jared Lauzon

Josée Marie Leblond
with high distinction

James Gordon Mills

Darryl Jeffrey Millson
with high distinction

Gabriel Ng

Roberto Pau

Christopher Andrzej Pawlowicz

Shawn Christopher Pouliotte

Abdullah Rahal
with high distinction

Nyron Haydn Rajab

Kandiah-Murugesu Ravindran

Steven D. Rosenberg
with distinction

Sandra Elizabeth Rotar

* Selvendran Sangarapillai

Michael L. Smart

Thomas Anthony Szollossy

Kevin Tam

Michael Treciokas

N. Somasunderam Vasanthakumaran

Matthew David Vella
Concentration in Management
with high distinction

Catherine Marie Vigneron
with high distinction

Scott A. White
with high distinction

Ming Chun Jimmy Wong

Donald G. Young
with distinction

Michael Robert Yrenaya

Sasha Zikic
with distinction

MECHANICAL

Ahmad Adili

Tarik Said Almalak

Steven Ralph Lawrence Amond

Brent A. Bailey

Karen Jennifer Bell
with distinction

Jennifer Sofie Berg

Marc Bouwhuis

Jennifer Susan Boyd

Jeffrey Stuart Cain
with high distinction

Marc Charbonneau
Concentration in Computer-Integrated Manufacturing

Christopher Sean Donnelly

Tiago Emanuel Estrela

Monika Sylvia Galius

Neil Frederick Greene

Maziar Hadjdai

Stephen Ross Jacobsen

Kim Ingrid Jones

* Mark Lawrence Lacasse

Gerald Shane Joseph Lafreniere

Benoit Lalonde
Concentration in Management

Therese Maria McCoy
Concentration in Computer-Integrated Manufacturing

Sean William Moritz
Concentration in Computer-Integrated Manufacturing

Duc Quynh Nguyen

Christopher Steve Nowak
Concentration in Management

Robert J. Oliver

G. G. Robins Parsons

Murray K. Shultz
with distinction

Marc Lucien Sova

Kam Shing Colin Tam

Raphael Gonzaga Tiangco

Juan Carlos Ticas
Concentration in Computer-Integrated Manufacturing

Christopher Victor Travis

Jim Triantafillou
with distinction

John Scott Vasudev

Perfecto Velez Macho

Szymon Wlodarski

Bachelor of Architecture

(Presented by Associate Professor J. Benjamin Gianni, Director of the School of Architecture)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

David Lloyd Anderson
with distinction

Marc Baumgartner
with distinction

Donna A. Bennett
with distinction

Daniel Roger Bisnaire

Carolyn Ellen Bouffard

David Graham Brooks

* Marion Tamara Bruce

David Stanislas Edward Bucovy
with high distinction

Jason Chang
with distinction

Wan-Chi Chang

Thomas Y. Choe
with distinction

Sue-Anne Chong
with distinction

Franco Colalillo

Curtis Drul
B.E.S. (Manitoba)

Heather E. Dubbeldam
with distinction

Robert John Forest

Peter Norman Gabor
with distinction

Robert Ian Gowing
with high distinction

Jayson Donald Halladay

Gawain Ming Cheung Ho

Esther Ree Yung Hong

Catherine Leslie Ircha

Sylvia Joanna Jacobs

Heather Lynne Kilday

Simon Yoo-Hyun Kim
with distinction

Nelson Lai

Josée Lucie Lapointe

Edmund Lee
with distinction

Dany Levasseur

Danny Yok Lew
with high distinction

Rosita MacMillan
with high distinction

Dominique Morazain
with high distinction

Carole D. Nadeau

Sammy Nelson
with distinction

Kevin Hai-Tung Nguyen

Christopher Pemberton
B.A. (Carleton)
with high distinction

Jean-François Prost
B.A. (Quebec)
with distinction

* Peter James Rankin

Steven Russell Reynolds

Danica Robertson

Darren Kenneth Sanger-Smith

Grzegorz Stanislaw Tesch
with distinction

* Grant van der Slagt
with distinction

Christopher Robert Vincelli
B.A. (Concordia)

Brent Christopher Whiteley
with high distinction

Christopher Dwayne Willie

A. Matthew Wong

Constance Amber Wright
with distinction

Innes Richard Yates
with high distinction

Orang Yazdani
with distinction

James Jeffrey Youck
B.A. (Saskatchewan)
with distinction

Genevieve Kirsten L. Zander

Jan John Zastera
with distinction

Bachelor of Industrial Design

(Presented by Assistant Professor Martien de Leeuw, Acting Director of the School of Industrial Design)

Awarded at the
June Meeting of Senate

Matthew Jerome Amend
with distinction

David Creaghan
with distinction

Scott Paul Emery
with high distinction

Vivian Fong
with distinction

Blair Griezic

Michael Hutchison

Paul Fredrick Krüger
with distinction

Mathieu Lesage
with distinction

Laetitia Lévy
with distinction

Andrew Tien-man Ng
with high distinction

Rodrigo Peralta
with distinction

Dylan P. Rogers

Miriam Laura Smith
with high distinction

Kathryn Joan Spiller
B.Sc. (McMaster)
with high distinction

John Edwin Sweetman
with high distinction

George Tsaklidis
with high distinction

Robert D. Watters
with high distinction

The following degrees and certificate were approved by Senate after publication of the 1993 Fall Convocation program.

Bachelor of Arts (with Honours)

Sara Rebecca Watts
Highest Honours in English

Bachelor of Arts

Hing Lun William Au

Cynthia Alexandra Bennett

Lyne Claude Bourque

Karen Jodoin

Sek-Wai Mok

Bachelor of Science

Omar Brian Mohamdee

Certificate in Law Enforcement Studies

James Christian Rowland Hall

Medallists in the Graduating Class

The Governor General's Medal–Bachelor's Level
Awarded annually to the student standing at the head of the graduating class at the bachelor's level.
Donor: His Excellency the Governor General of Canada

Priya Mathur
Honours Economics

The Chancellor's Medal
Awarded annually in the name of the Chancellor of the University to a graduating student of outstanding academic achievement.

Ian Anthony Nalder
Honours Environmental Science

The President's Medal
Awarded annually in the name of the President of the University to the student with the highest standing in a pass program of studies.

Marion Armstrong
French

University Medal for Outstanding Graduate Work–Ph.D. Level
Awarded, when merited, for outstanding graduate work at the doctoral level.

Denis Joseph Dumas
Physics

University Medal for Outstanding Graduate Work–Master's Level
Awarded, when merited, for outstanding graduate work at the master's level.

Marinette Annie Besson
Electrical Engineering

University Medals (Undergraduate)
Awarded annually, when merited, to the graduating students standing highest in interfaculty studies, arts, social sciences, science, engineering, architecture, commerce, computer science, industrial design, journalism, music, public administration, and social work.

University Medal in Interfaculty Studies
Natalia Rybczynski
Honours Integrated Science Studies

University Medal in Arts
Matthew Justin Lauzon
Honours History and Philosophy

University Medal in Social Sciences
Ian Hurd
Honours Political Science

University Medal in Science
Lynn Marie Kondo
Honours Statistics

University Medal in Engineering
Shaun Wallace Horning
Aerospace Engineering

Lieutenant Governor's Medal in Architecture
Awarded annually, when merited, to the student standing at the head of the graduating class in architecture

Dominique Morazain

University Medal in Architecture
David Stanislas Edward Bucovy

University Medal in Commerce
Robert J. Hargadon

University Medal in Computer Science
Graeme Douglas Johnson

University Medal in Journalism
Giovanna Panzera
Honours Journalism and Political Science

University Medal in Public Administration
Tamara Leigh Perrin

Senate Medals
Awarded, when merited, to graduating students of outstanding academic achievement.

Doctoral Level
Sara Zena MacDonald Burke
History

Yong Hua Thia
Electrical Engineering

Mingyu Yu
Mathematics

Master's Level
Sandrine Dudoit
Mathematics

James Henry Sykes
Aerospace Engineering

Kok Chor Tan
Philosophy

Nancy Jane Corbett
Management Studies

Undergraduate Level
Tara LeeAnne Arthur
Aerospace Engineering

Brent Gilchrist
Honours Political Science

Michael Cooper
Aerospace Engineering

Elizabeth Ellen Tripp
Linguistics

Derek Chi Sang Wong
Economics

Liam Douglas Meighen Scott
Honours Political Science

Katherine Lyn Zappala
English and Music

Paul Edward Bellefleur

Commerce
Lisa Susan Richards
Honours English

Jeffrey Stuart Cain
Mechanical Engineering

Catherine Marie Vigneron
Electrical Engineering

Darryl Jeffrey Millson
Electrical Engineering

Matthew Robert Bullock
Aerospace Engineering

Lay Yeem Teoh
Statistics

Somsay Sychaleun
Computer Systems Engineering

Bernhard Vogel
Commerce

Anne-Marie Stewart
Integrated Science Studies

Tricia Diduch
Honours French

Eric Anton Langenbacher
German and Political Science

Sue MacNeil
Honours Directed Interdisciplinary Studies

Sydney Margaret Hill
Honours English and French

David Wayne Horton
Electrical Engineering

Tanis Bestland
Honours Political Science

Samantha Shortt
Sociology/Anthropology and Women's Studies

Scott Newman Ashdown
Computer Systems Engineering

Tyler Dean
Honours Law and Sociology/Anthropology
Concentration in Criminology and Criminal Justice

Michael Kiernan Carroll
History and Political Science

Henry Marshall Tory Award
Presented annually to an outstanding graduating student who has combined a high degree of academic application with a broad participation in extracurricular activities.

Raymond A. Sullivan
Biology

CP093